Listing of Claims

Claims 1-11 (Cancelled)

- 12. (Previously Amended) A method for depositing a phosphor pattern on an article using a direct-write tool, comprising the steps of providing a particulate suspension of phosphor particles, wherein said particles are substantially spherical and have a weight average particle size of from about 0.1 µm to about 20 µm and depositing said particulate suspension on said article using a direct-write tool that is controllable over an x-y grid.
- 13. (Original) A method as recited in Claim 12, wherein said average particle size is from about 0.3 μ m to about 10 μ m.
- 14. (Original) A method as recited in Claim 12, wherein said particles comprise metal oxide phosphor particles.
- 15. (Original) A method as recited in Claim 12, wherein said particles comprise metal sulfide phosphor particles.
- 16. (Original) A method as recited in Claim 12, wherein said article is a panel for a flat panel display.
- 17. (Original) A method as recited in Claim 12, wherein said phosphor particles have an apparent density of not greater than about 20 percent of the theoretical density of the phosphor compound.
- 18. (Original) A method as recited in Claim 12, wherein said phosphor particles comprise hollow particles.
- 19. (Original) A method as recited in Claim 12, wherein said direct-write tool is an automated syringe.
- 20. (Original) A method as recited in Claim 12, wherein said direct-write tool is an ink-jet.

Claims 21-23 (Cancelled)

- 24. (Previously Amended) A method for forming a flat panel display, comprising the steps of:
 - a) providing a flat panel display screen;
 - b) depositing at least first phosphor particles on said display screen, wherein said step of depositing comprises using a direct-write tool controllable over an x-y grid to deposit a liquid suspension comprising said first phosphor particles in

predetermined pixel regions wherein said first phosphor particles have an average size of not greater than about 20 µm and a substantially spherical morphology.

- 25. (Previously Presented) A method as recited in Claim 12, wherein said phosphor particles have a size distribution wherein at least about 80 weight percent of said phosphor particles are not larger than twice said average particle size.
- 26. (Previously Presented) A method as recited in Claim 12, wherein said phosphor particles have a size distribution wherein at least about 90 weight percent of said phosphor particles are not larger than twice said average particle size.
- 27. (Previously Presented) A method as recited in Claim 12, wherein said particulate suspension comprises a water-based liquid vehicle.
- 28. (Previously Presented) A method as recited in Claim 12, wherein said particulate suspension has a viscosity of not greater than about 30 centipoise.
- 29. (Previously Presented) A method as recited in Claim 12, wherein said phosphor pattern comprises predetermined pixel regions.
- 30. (Previously Presented) A method as recited in Claim 24, wherein said flat panel display is a field emission display.
- 31. (Previously Presented) A method as recited in Claim 24, wherein said flat panel display is a plasma display panel.
- 32. (Previously Presented) A method as recited in Claim 24, wherein said phosphor particles have an average size of from about 0.3 μ m to about 10 μ m.
- 33. (Previously Presented) A method as recited in Claim 24, further comprising the step of depositing at least second phosphor particles on said display screen, wherein said step of depositing comprises using said direct-write tool controllable over an x-y grid to deposit said second phosphor particles in said predetermined pixel regions wherein said second phosphor particles have an average size of not greater than about 20 µm and a substantially spherical morphology and have a composition different than said first phosphor particles.
- 34. (Previously Presented) A method as recited in Claim 24, wherein said directwrite tool is an ink-jet device.
- 35. (Previously Presented) A method as recited in Claim 24, wherein said phosphor particles comprise metal oxide phosphor particles.

- 36. (Previously Presented) A method as recited in Claim 24, wherein said phosphor particles comprise metal sulfide phosphor particles.
- 37. (Currently Amended) A method as recited in Claim <u>24</u> 12, wherein said phosphor particles have a size distribution wherein at least about 80 weight percent of said phosphor particles are not larger than twice said average particle size.
- 38. (Currently Amended) A method as recited in Claim <u>24</u> <u>12</u>, wherein said phosphor particles have a size distribution wherein at least about 90 weight percent of said phosphor particles are not larger than twice said average particle size.